

9-10-12

# ADDING & SUBTRACTING

## MIXED #5

### STEPS:

- ① Set up vertically (fraction column & whole # column)

$$\text{Ex: } 2\frac{2}{5} + 6\frac{1}{3} \rightarrow \begin{array}{r} 2\frac{2}{5} \\ + 6\frac{1}{3} \\ \hline \end{array}$$

- ② Find the LCD & change the fractions accordingly

$$\text{Ex: } \begin{array}{r} 2\frac{2}{\cancel{3}} = 2\frac{6}{15} \\ + 6\frac{1}{\cancel{3}} = 6\frac{5}{15} \\ \hline \end{array}$$

- ③ Add or subtract the fractions

- ④ Add or subtract whole #s

- ⑤ Simplify

$$\text{Ex: } \begin{array}{r} 2\frac{2}{5} = 2\frac{6}{15} \\ + 6\frac{1}{3} = + 6\frac{5}{15} \\ \hline 8\frac{11}{15} \end{array}$$

\*\* If you have to borrow from the whole #, bring over 1 whole as a fraction (use the same denominator) & add it to the existing top fraction.

Ex:  $10\frac{1}{3} = \overset{9}{\cancel{10}}\overset{2}{\cancel{\frac{2}{6}}} + \frac{6}{6} = \frac{8}{6}$

$$- 9\frac{1}{2} = -9\frac{3}{6}$$


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$$\frac{5}{6}$$

Ex:  $4 - \frac{2}{5} \rightarrow \overset{3}{\cancel{4}}\overset{5}{\cancel{\frac{2}{5}}} - \frac{2}{5}$

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$$3\frac{3}{5}$$

Ex:  $16\frac{2}{5} = \overset{15}{\cancel{16}}\overset{12}{\cancel{\frac{2}{30}}} + \frac{30}{30} = \frac{42}{30}$

$$- 5\frac{5}{6} = 5\frac{25}{30}$$


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$$10\frac{17}{30}$$